

ABSTRACT

A microfluidic device comprising a substrate, a plurality of resin layers formed on the substrate, and a three-dimensional fluid circuit formed on each of the plurality of the resin layers; and a method of manufacturing a microfluidic

5 device comprising the steps of (a) forming a resin layer on a substrate and forming a groove having a predetermined pattern which functions as a fluid flow path by removing the resin layer by laser processing, (b) forming a subsequent resin layer by coating a resin on the overall surface of the resin layer having been processed and forming a groove and/or a throughhole to the groove formed in the

10 resin layer coated with the resin, by laser processing of the subsequent resin layer, (c) repeating the step (b), and (d) forming a three-dimensional fluid circuit by finally resin coating.